

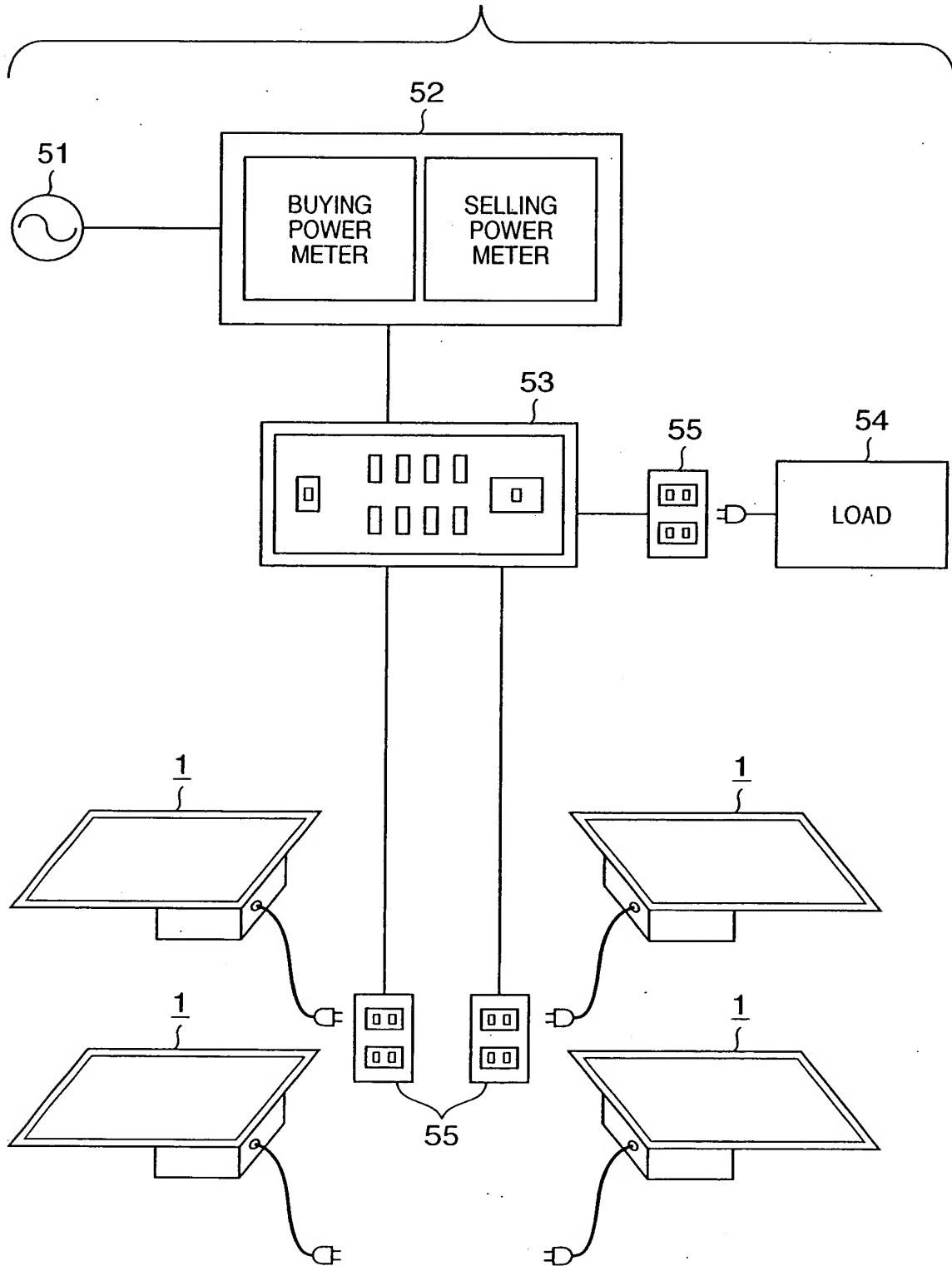
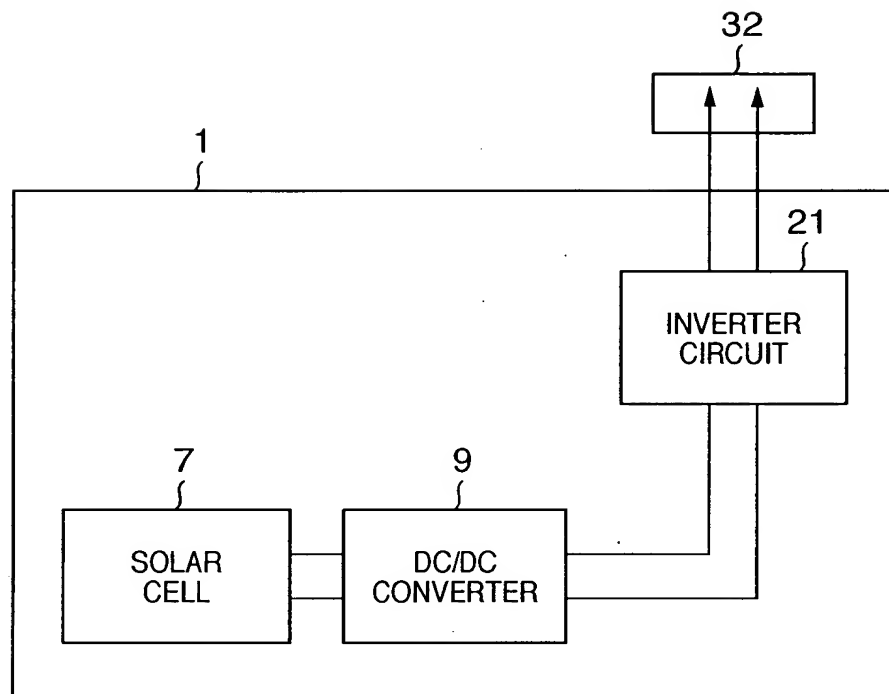
**FIG. 1**

FIG. 2



**FIG. 3**

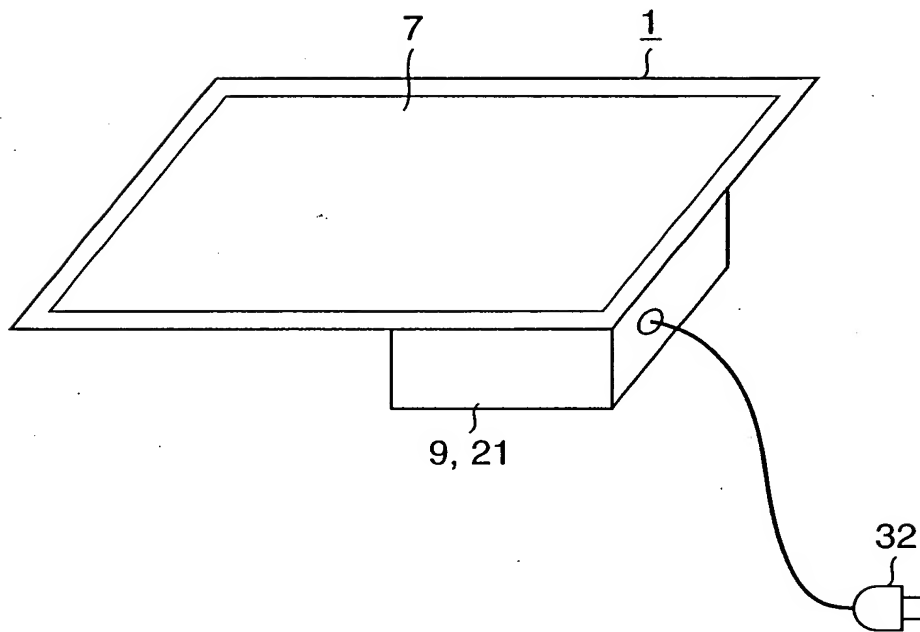


FIG. 4

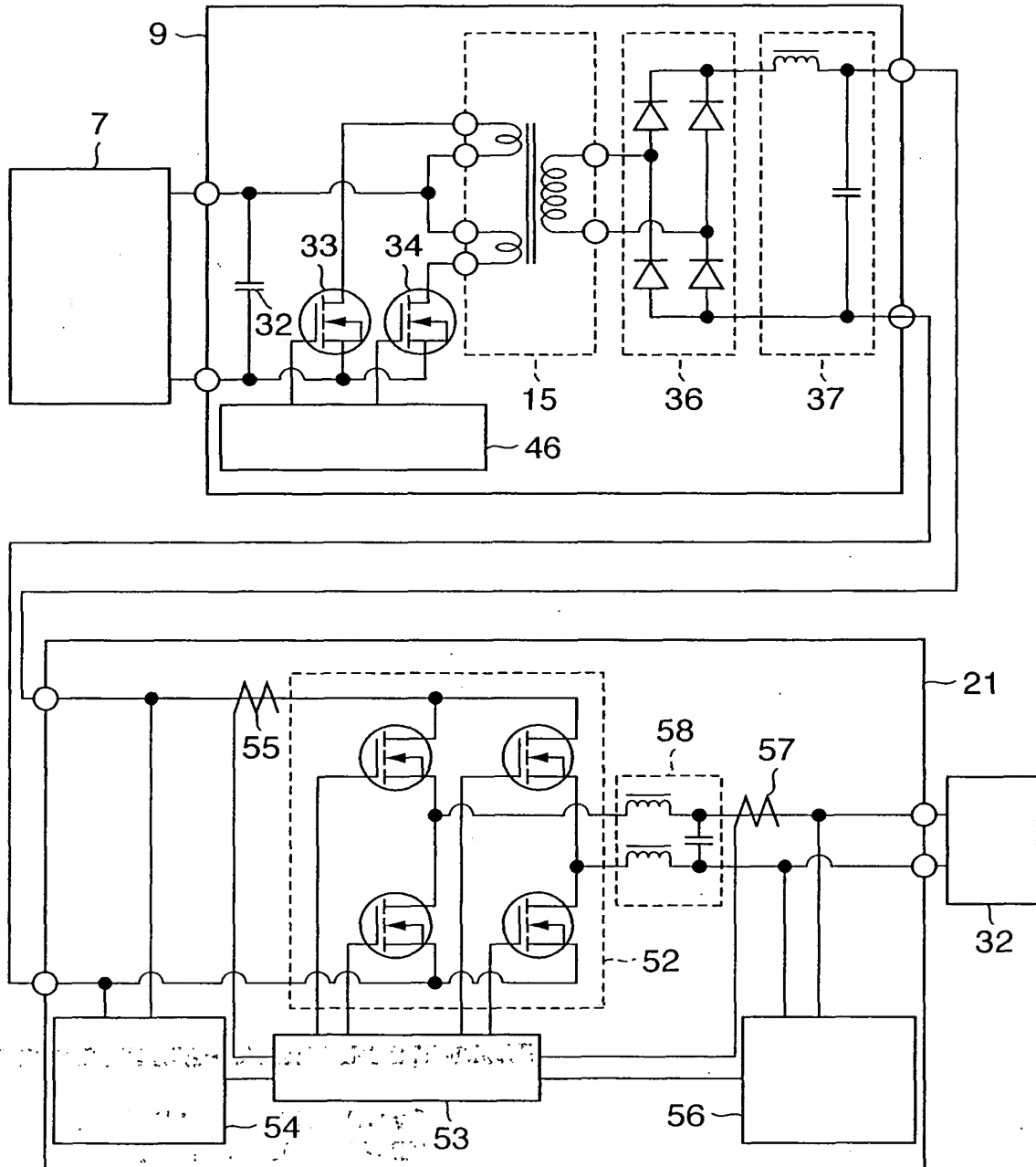
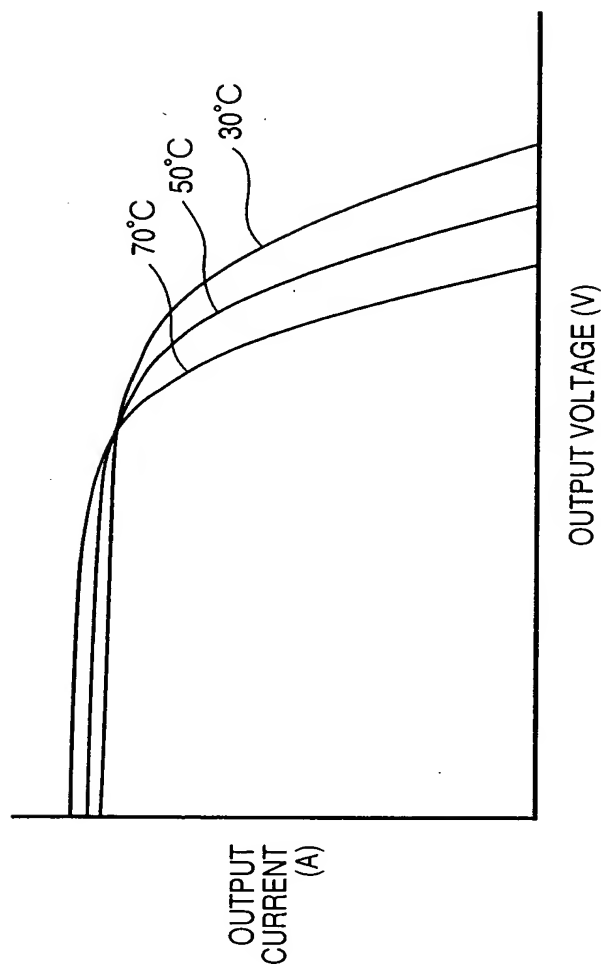
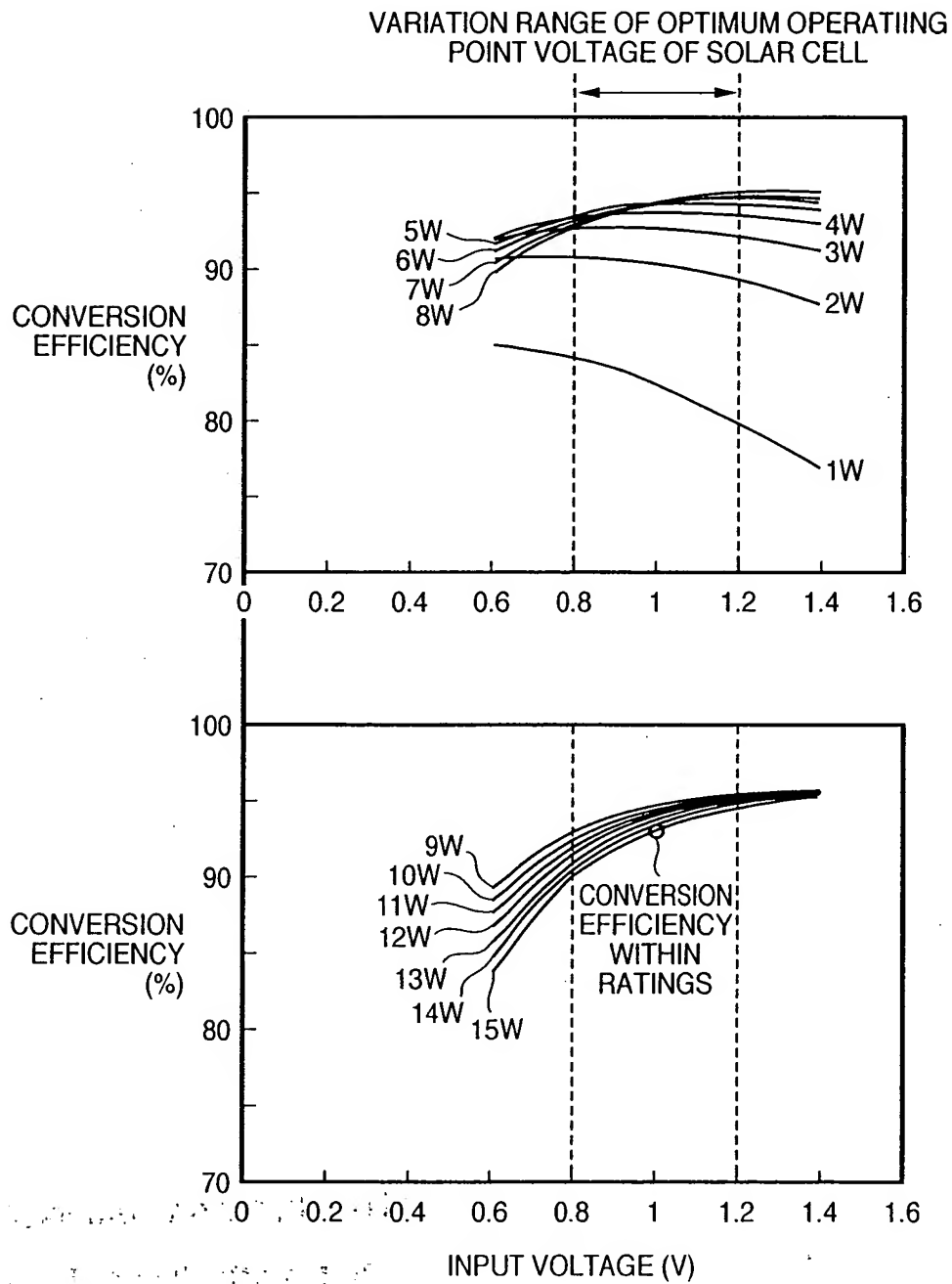


FIG. 5



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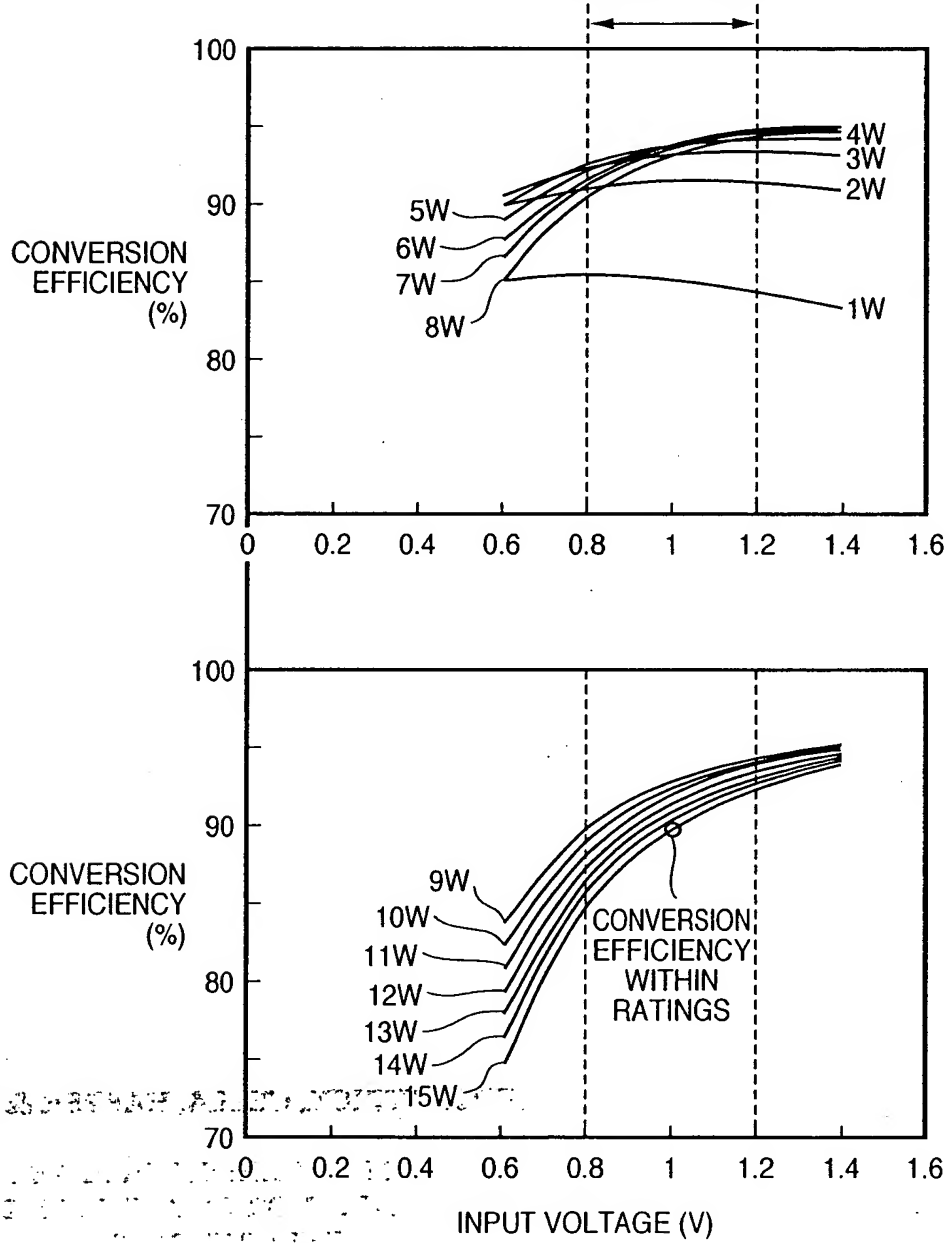
FIG. 6



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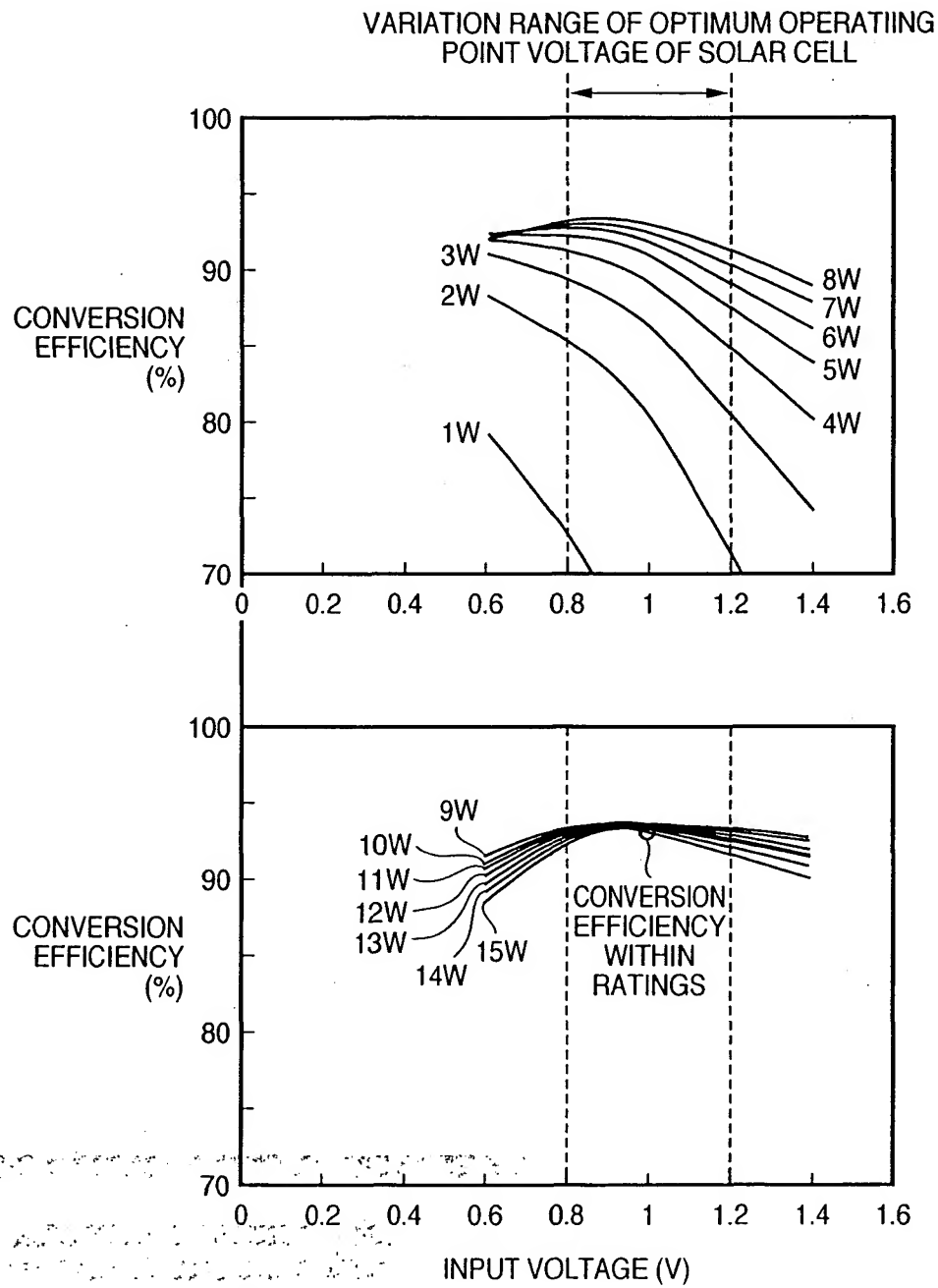
FIG. 7

VARIATION RANGE OF OPTIMUM OPERATING  
POINT VOLTAGE OF SOLAR CELL



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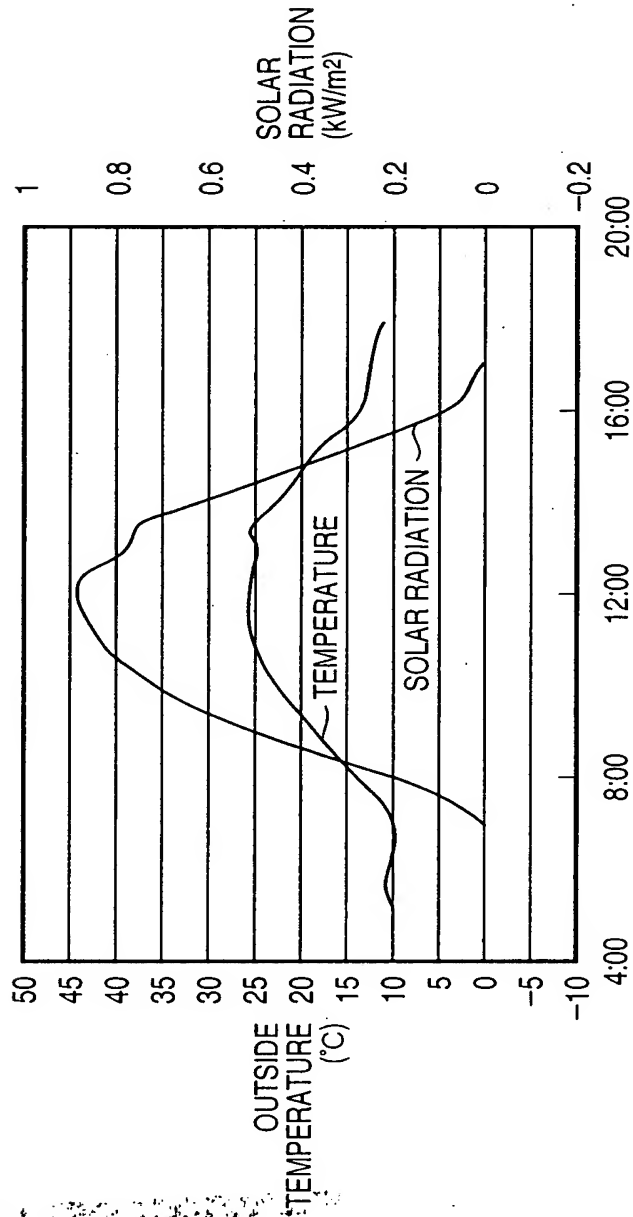
FIG. 8



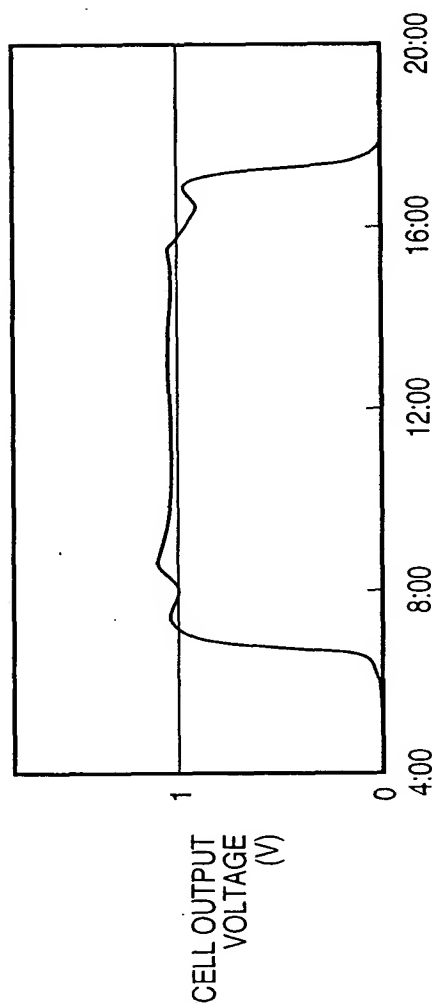


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FIG. 9



**FIG. 10**

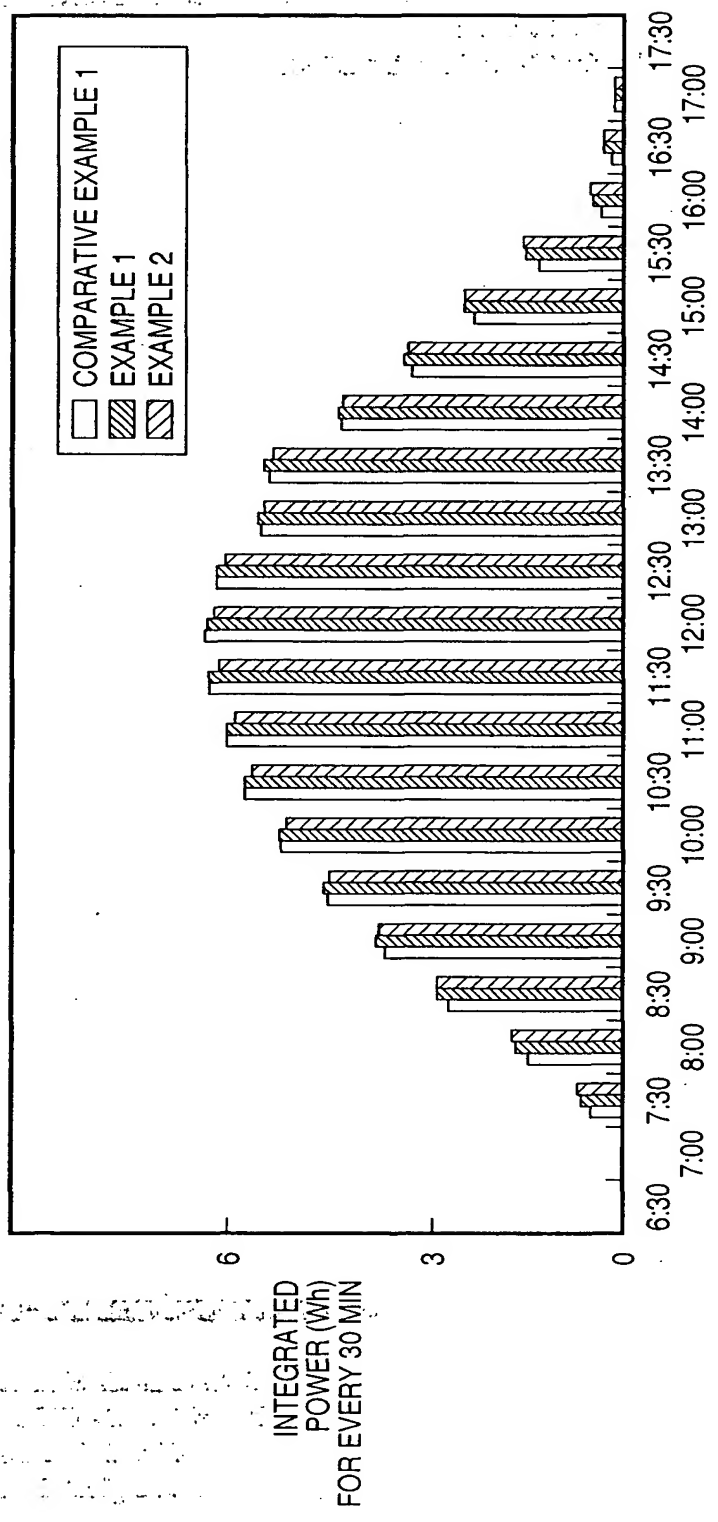


05-000000-000000, 05-000000-000000

As a result, the model is able to capture the nonlinear relationship between the variables. The model is also able to capture the interaction between the variables. The model is also able to capture the nonlinearity of the relationship between the variables. The model is also able to capture the nonlinearity of the relationship between the variables.

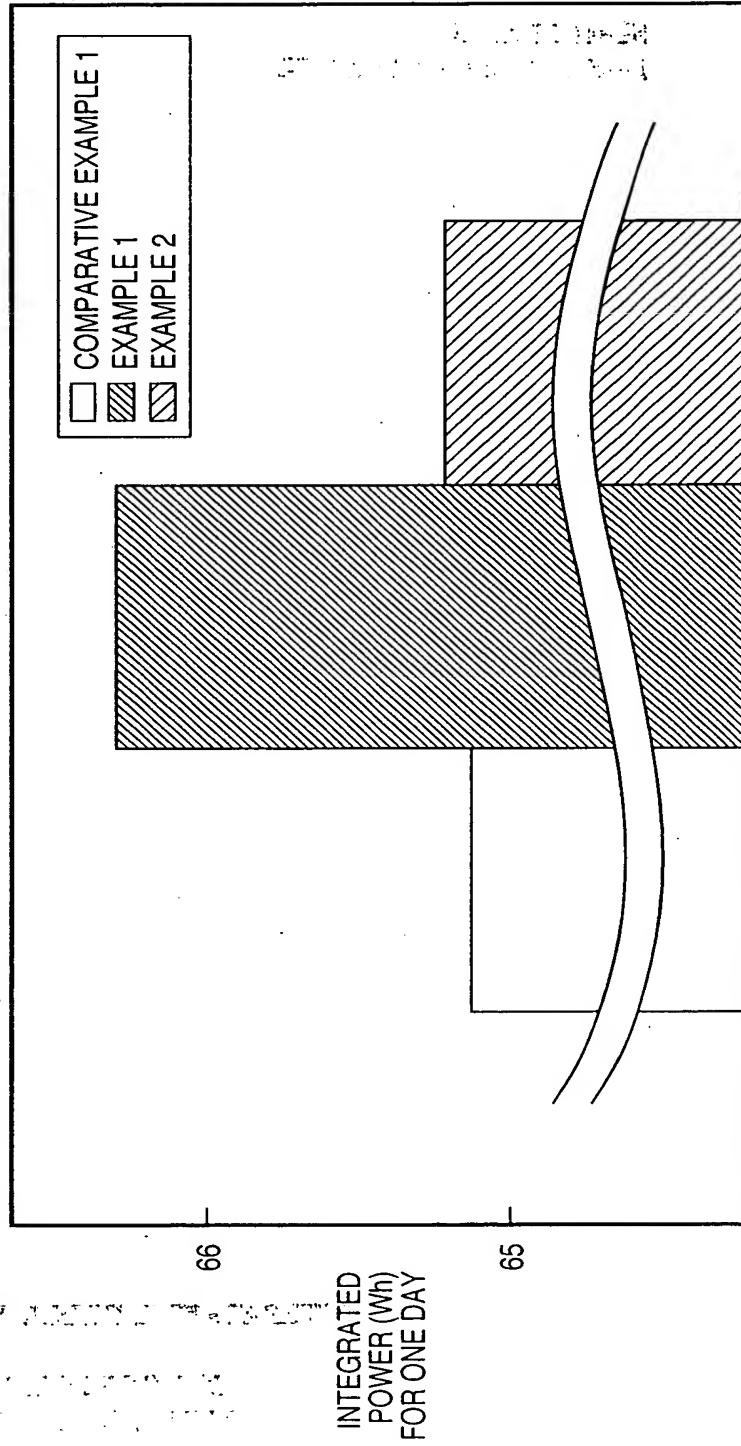
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FIG. 11



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FIG. 12



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**FIG. 13**

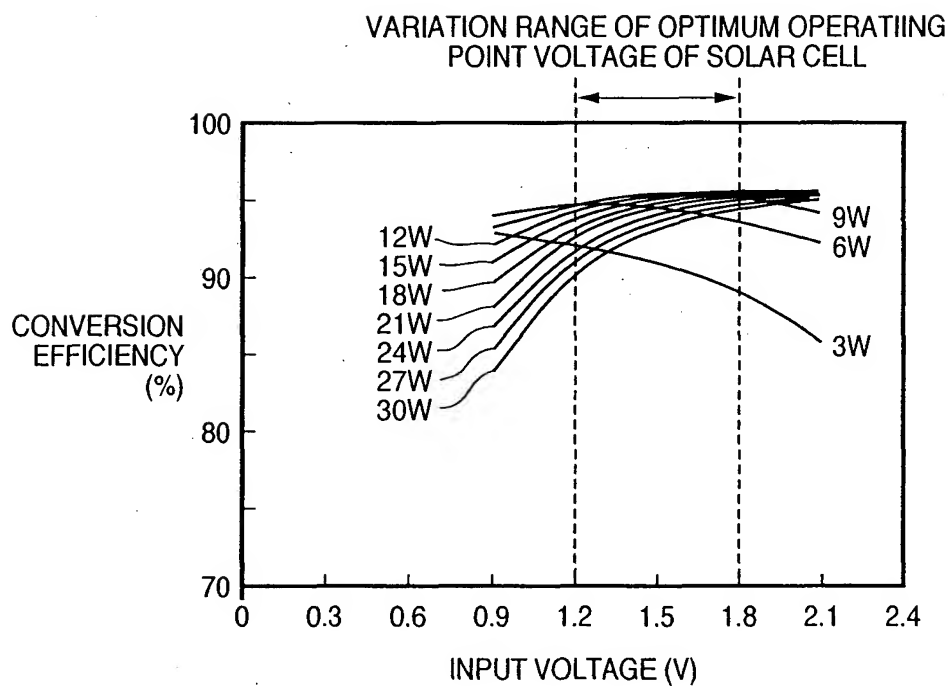
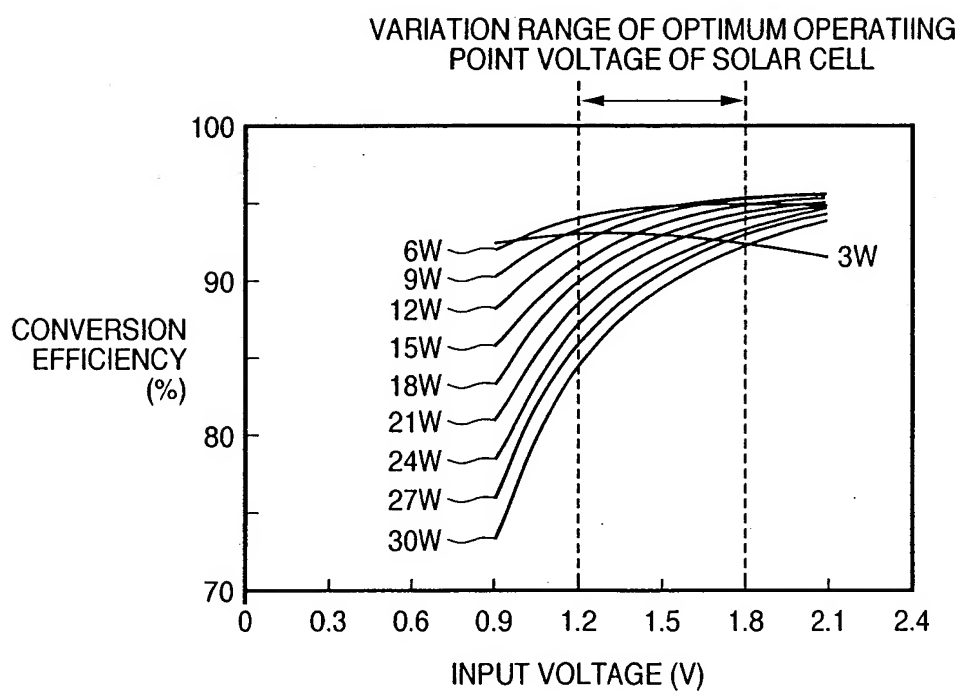
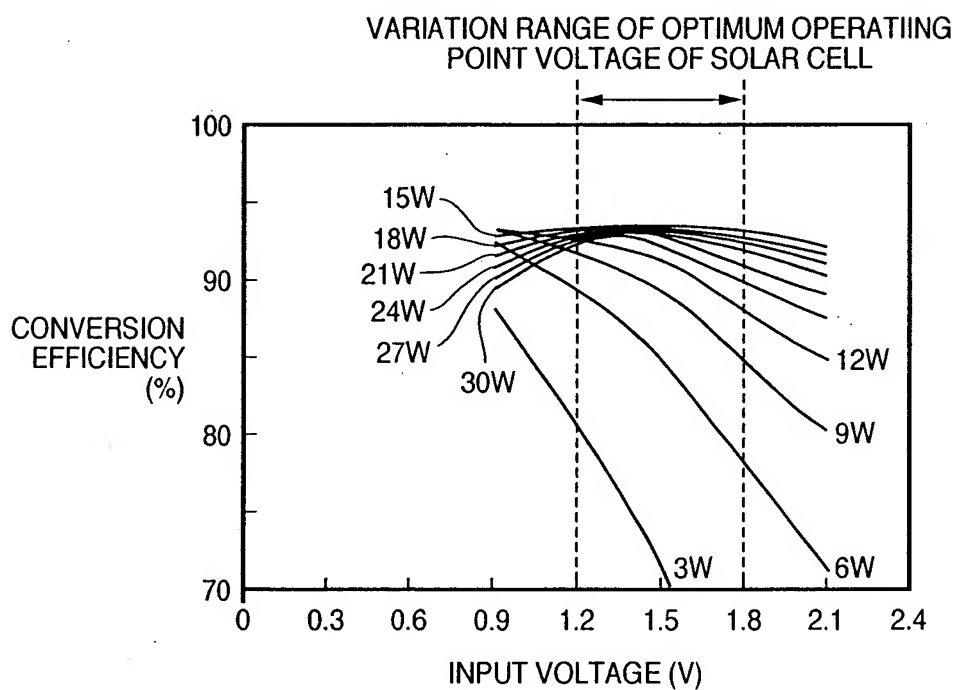


FIG. 14



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**FIG. 15**



# FIG. 16

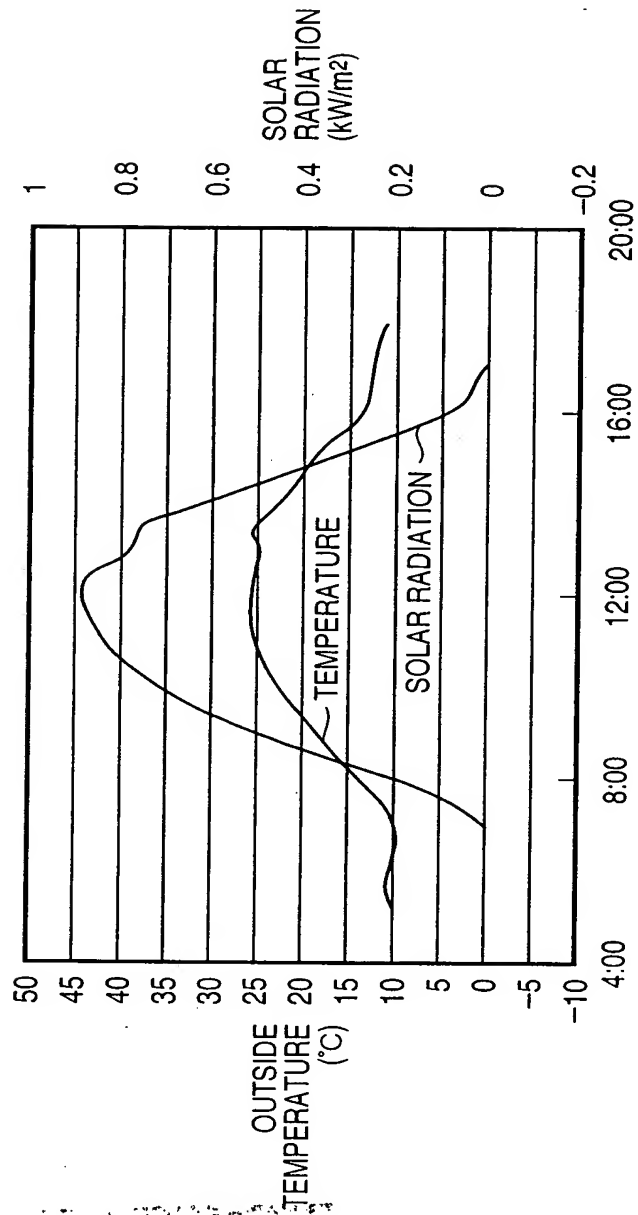




FIG. 17

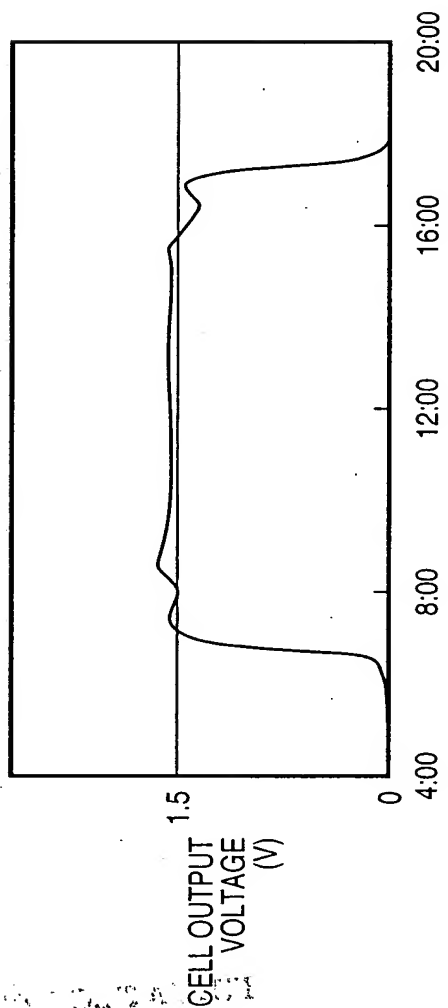


FIG. 18

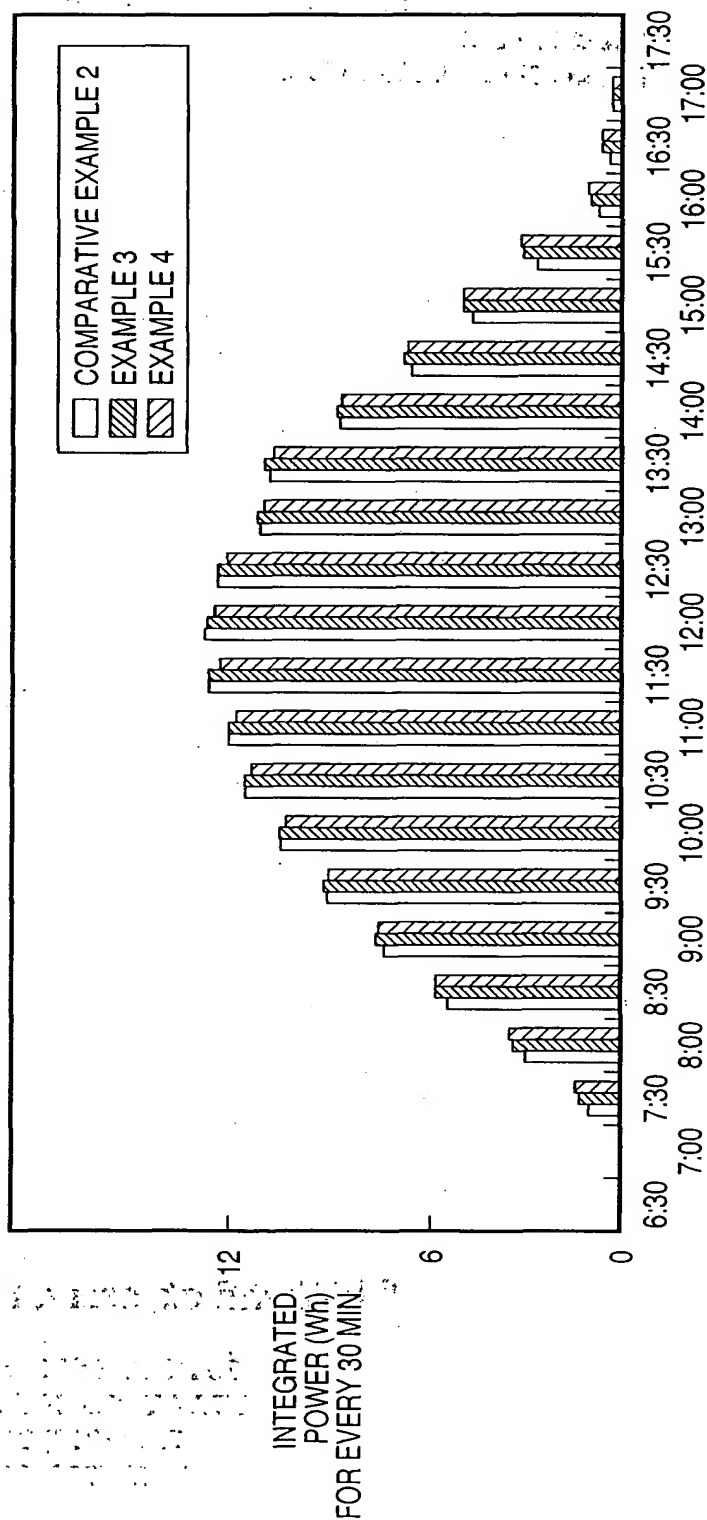
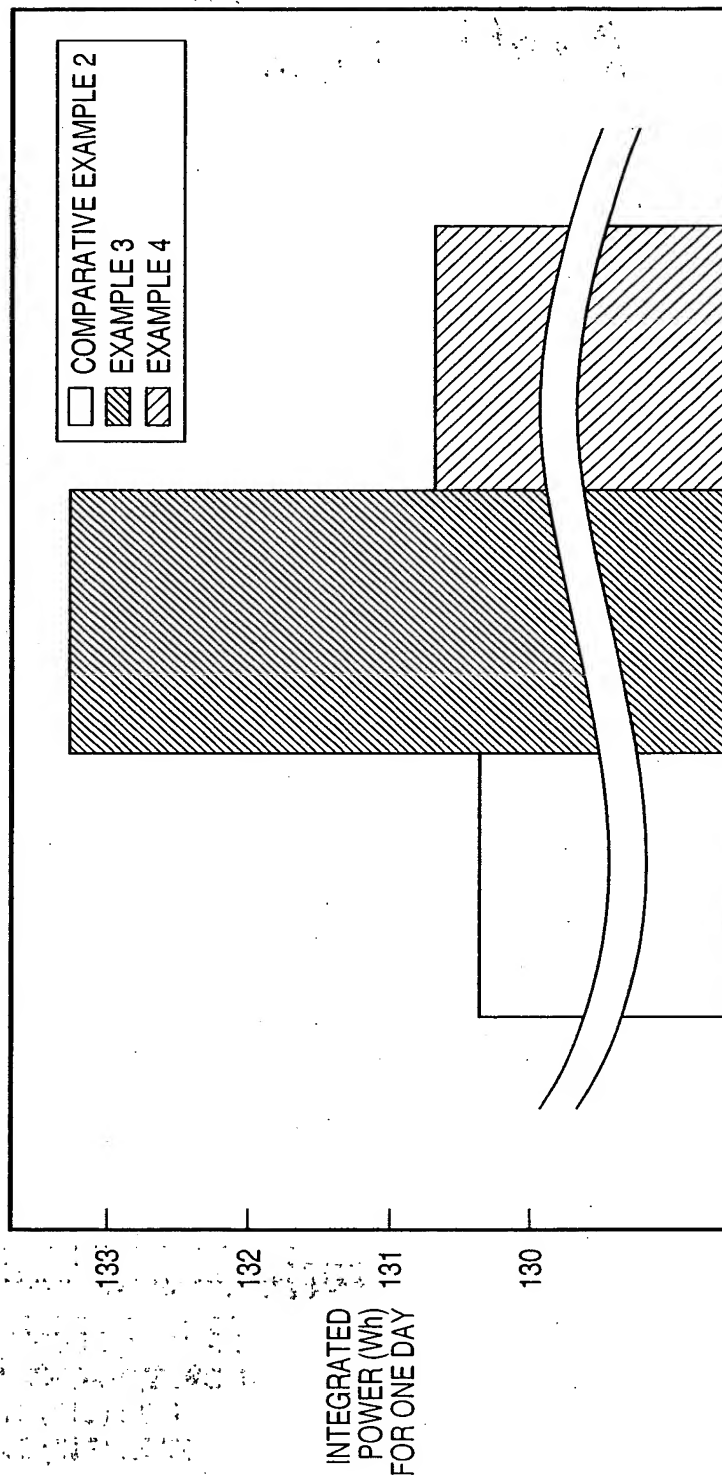


FIG. 19



## FIG. 20

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### CORE

MATERIAL : FERRITE

SHAPE : EP CORE

EFFECTIVE SECTIONAL AREA : 33.9mm<sup>2</sup>

EFFECTIVE MAGNETIC PATH LENGTH : 28.5mm

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### COIL

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PRIMARY WINDING : 2 TURNS × 2 (PUSH-PULL)

MATERIAL : FLAT TYPE COPPER WIRE, WINDING RESISTANCE 9.2mΩ

SECONDARY WINDING : 400 TURNS

MATERIAL : URETHANE-INSULATED MAGNET WIRE, DIAMETER 0.14mm

---

FIG. 21

## CORE

MATERIAL : FERRITE

SHAPE : EP CORE

EFFECTIVE SECTIONAL AREA : 33.9mm<sup>2</sup>

EFFECTIVE MAGNETIC PATH LENGTH : 28.5mm

## COIL

PRIMARY WINDING : 3 TURNS  $\times$  2 (PUSH-PULL)MATERIAL : FLAT TYPE COPPER WIRE, WINDING RESISTANCE 20.7m $\Omega$ 

SECONDARY WINDING : 600 TURNS

MATERIAL : URETHANE-INSULATED MAGNET WIRE, DIAMETER 0.115mm

FIG. 22

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**CORE****MATERIAL : FERRITE****SHAPE : EP CORE****EFFECTIVE SECTIONAL AREA : 33.9mm<sup>2</sup>****EFFECTIVE MAGNETIC PATH LENGTH : 28.5mm**

---

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**COIL**

---

**PRIMARY WINDING : 1 TURN x 2 (PUSH-PULL)****MATERIAL : FLAT TYPE COPPER WIRE, WINDING RESISTANCE 2.3m $\Omega$** **SECONDARY WINDING : 200 TURNS****MATERIAL : URETHANE-INSULATED MAGNET WIRE, DIAMETER 0.2mm**

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**FIG. 23**

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**CORE**

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**MATERIAL : FERRITE****SHAPE : EP CORE****EFFECTIVE SECTIONAL AREA : 33.9mm<sup>2</sup>****EFFECTIVE MAGNETIC PATH LENGTH : 28.5mm**

---

---

**COIL**

---

**PRIMARY WINDING : 2 TURNS × 2 (PUSH-PULL)****MATERIAL : FLAT TYPE COPPER WIRE, WINDING RESISTANCE 9.2mΩ****SECONDARY WINDING : 266 TURNS****MATERIAL : URETHANE-INSULATED MAGNET WIRE, DIAMETER 0.17mm**

---

**FIG. 24**

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**CORE****MATERIAL : FERRITE****SHAPE : EP CORE****EFFECTIVE SECTIONAL AREA : 33.9mm<sup>2</sup>****EFFECTIVE MAGNETIC PATH LENGTH : 28.5mm**

---

---

**COIL**

---

**PRIMARY WINDING : 3 TURNS × 2 (PUSH-PULL)****MATERIAL : FLAT TYPE COPPER WIRE, WINDING RESISTANCE 20.7mΩ****SECONDARY WINDING : 399 TURNS****MATERIAL : URETHANE-INSULATED MAGNET WIRE, DIAMETER 0.14mm**

---



**FIG. 25**

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**CORE****MATERIAL : FERRITE****SHAPE : EP CORE****EFFECTIVE SECTIONAL AREA : 33.9mm<sup>2</sup>****EFFECTIVE MAGNETIC PATH LENGTH : 28.5mm**

---

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**COIL****PRIMARY WINDING : 1 TURN × 2 (PUSH-PULL)****MATERIAL : FLAT TYPE COPPER WIRE, WINDING RESISTANCE 2.3mΩ****SECONDARY WINDING : 133 TURNS****MATERIAL : URETHANE-INSULATED MAGNET WIRE, DIAMETER 0.24mm**

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